

(10) International Publication Number

PCT

(43) International Publication Date 12 October 2006 (12.10.2006)

(51) International Patent Classification: A61F 2/44 (2006.01)

(21) International Application Number:

PCT/US2006/012934

(22) International Filing Date:

3 April 2006 (03.04.2006)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/667,876

1 April 2005 (01.04.2005) US

- (71) Applicant (for all designated States except US): THE REGENTS OF THE UNIVERSITY OF COLORADO [US/US]; 4001 Discovery Drive, Suite 390, Campus Box 588 Sys, Boulder, Colorado 80309 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): GALL, Kenneth [US/US]; 768 Springlake Lane Nw, Atlanta, Georgia 30318 (US). TYBER, Jeffrey, Alan [US/US]; Tyber@colorado.edu (US). YAKACKI, Christopher, M. [US/US]; 4870 Meredith Way, #303, Boulder, Colorado 80303 (US). BARTZ, Reed [US/US]; Reed.bartz@uchsc.edu (US).
- (74) Agent: LEWIS, George, C.; Greenberg Traurig, LLP, The Tabor Center, 1200 17th Street, Suite 2400, Denver, Colorado 80202 (US).

WO 2006/108114 A3

(81) Designated States (unless otherwise indicated, for every

- kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- . with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 15 March 2007

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A GRAFT FIXATION DEVICE AND METHOD

(57) Abstract: In one aspect a device is disclosed for use as a bone implant comprising, a body having a pre-implantation shape and a post-implantation shape different from the pre-implantation shape. The body is configured to change from the pre-implantation shape to the post-implantation shape in response to the body being activated. The body is configured to be inserted in a bone recess while the body is in the pre-implantation shape. In another aspect a method is disclosed comprising inserting a cable member into a recess in a bone, inserting a retention device into the recess, the retention device containing a shape memory material, and activating the shape memory material.

